

Data File : VU030377.D
Acq On : 24 Mar 2019 17:48
Operator : JC/SP
Sample : K2016-11
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
C0988

Quant Time: Mar 25 03:26:37 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Mar 25 03:20:51 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	433332	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.15	117	477234	50.00	ug/L	0.07
60) 1,4-Dichlorobenzene-d4	11.43	152	4028	50.00	ug/L	-0.05

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	131076	37.59	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	75.18%
7) Chloroethane-d5	1.68	69	108824	39.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	78.74%
11) 1,1-Dichloroethene-d2	2.37	63	904	0.14	ug/L	0.10
Spiked Amount	50.000	Range	60 - 125	Recovery	=	0.28%#
21) 2-Butanone-d5	4.17	46	292808	89.32	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	89.32%
24) Chloroform-d	4.65	84	358464	59.66	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	119.32%
26) 1,2-Dichloroethane-d4	5.31	65	179227	45.58	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.16%
32) Benzene-d6	5.35	84	555389	40.58	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	81.16%
36) 1,2-Dichloropropane-d6	6.33	67	196720	42.01	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	84.02%
41) Toluene-d8	7.56	98	504633	41.06	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	82.12%
43) trans-1,3-Dichloropropene-	7.85	79	82717	37.57	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	75.14%
47) 2-Hexanone-d5	8.32	63	205858	81.13	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	81.13%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	285170	42.56	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	85.12%
64) 1,2-Dichlorobenzene-d4	11.92	152	282855	3504.66	ug/L	0.06
Spiked Amount	50.000	Range	80 - 120	Recovery	=	7009.32%#

Target Compounds

					Qvalue
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	1874	0.593	ug/L # 24
13) Acetone	2.32	43	143647	43.328	ug/L 100
16) Methylene chloride	2.70	84	5990	1.639	ug/L 86
22) 2-Butanone	4.28	43	10463	2.611	ug/L 95
25) Chloroform	4.67	83	2406025	379.210	ug/L 100
27) 1,2-Dichloroethane	5.42	62	1291048	259.313	ug/L # 75
29) Cyclohexane	4.99	56	67731	9.378	ug/L 99
31) Carbon tetrachloride	5.13	117	738163	149.034	ug/L 98
34) Trichloroethene	6.19	95	9181	2.299	ug/L 96
35) Methylcyclohexane	6.41	83	22513	3.426	ug/L # 75
38) Bromodichloromethane	6.76	83	25020	4.567	ug/L 99
39) cis-1,3-Dichloropropene	7.22	75	4401	0.664	ug/L # 37
40) 4-Methyl-2-pentanone	7.47	43	4438	0.573	ug/L # 66
42) Toluene	7.64	91	56426	3.347	ug/L 100
44) trans-1,3-Dichloropropene	7.85	75	3151	0.540	ug/L 83
46) Tetrachloroethene	8.23	164	7454	2.672	ug/L 91
48) 2-Hexanone	8.31	43	24271	3.824	ug/L # 76

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QLast Update : Mon Mar 25 03:20:51 2019
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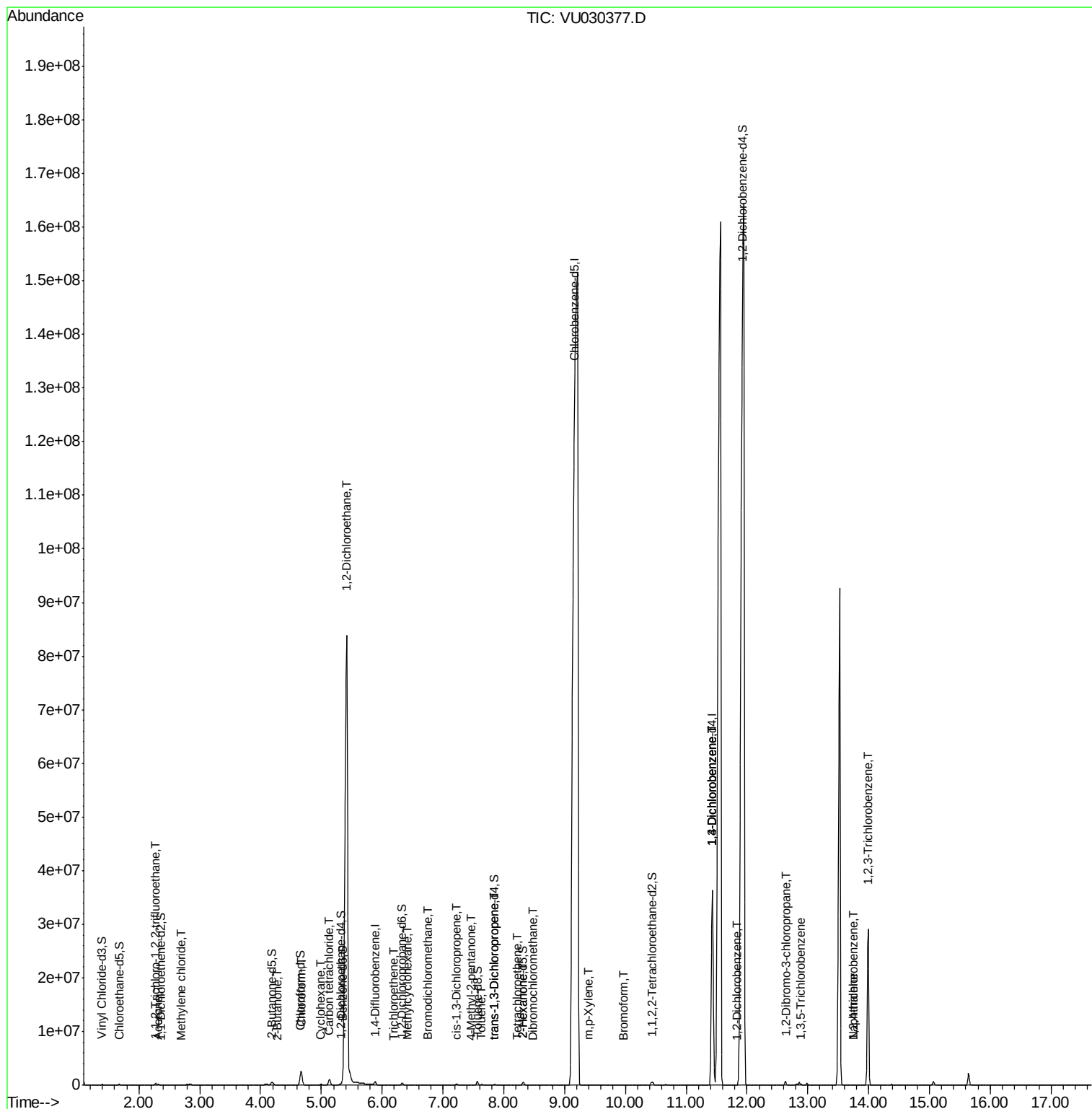
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	8.48	129	6925	1.711	ug/L	99
53) m,p-Xylene	9.39	106	5209	0.790	ug/L	94
61) Bromoform	9.96	173	2382	44.478	ug/L #	96
62) 1,3-Dichlorobenzene	11.43	146	19342842	146840.943	ug/L	96
63) 1,4-Dichlorobenzene	11.43	146	19342842	142636.871	ug/L	95
65) 1,2-Dichlorobenzene	11.82	146	375	2.815	ug/L	93
66) 1,2-Dibromo-3-chloropropan	12.63	75	127103	4285.625	ug/L #	7
67) 1,3,5-Trichlorobenzene	12.89	180	19095	193.634	ug/L	99
68) 1,2,4-trichlorobenzene	13.75	180	211	2.463	ug/L #	39
69) Naphthalene	13.75	128	29301	96.171	ug/L	98
70) 1,2,3-Trichlorobenzene	13.99	180	8672317	95850.718	ug/L	99

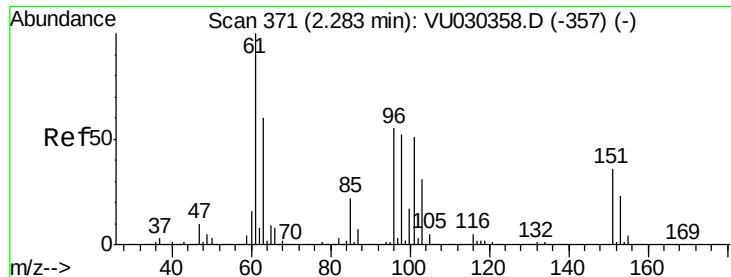
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.593 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.01 min

Lab File: VU030377.D

Acq: 24 Mar 2019 17:48

Instrument :

MSVOA_U

ClientSampleId :

C0988

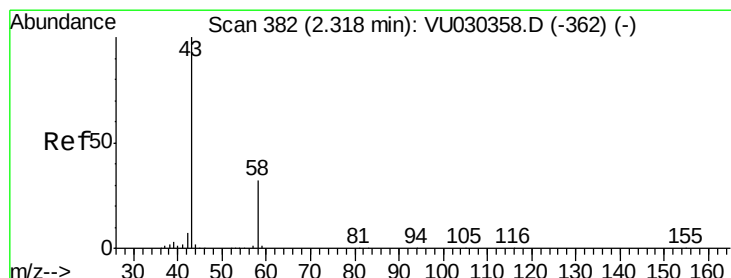
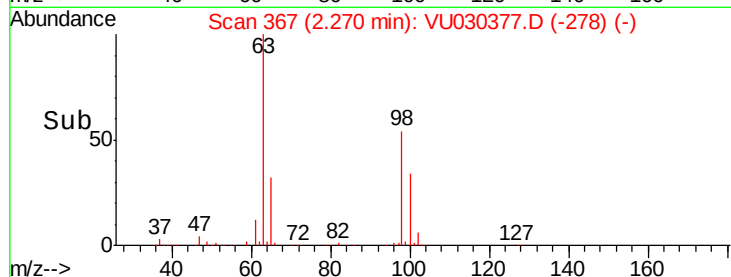
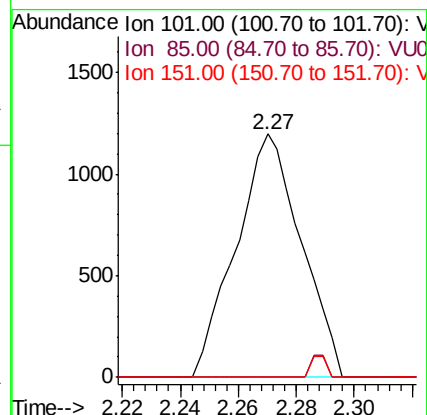
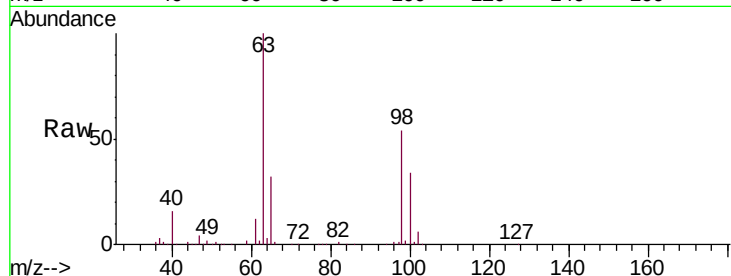
Tgt Ion:101 Resp: 1874

Ion Ratio Lower Upper

101 100

85 2.2 34.8 52.2#

151 2.1 56.6 85.0#



#13

Acetone

Concen: 43.328 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VU030377.D

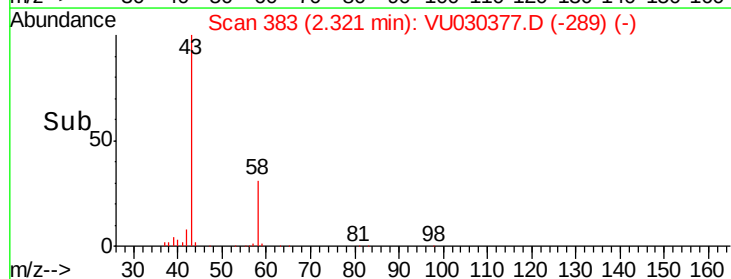
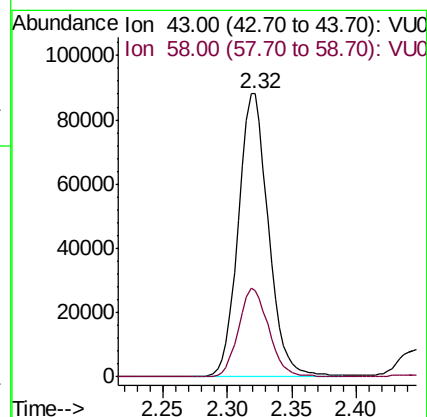
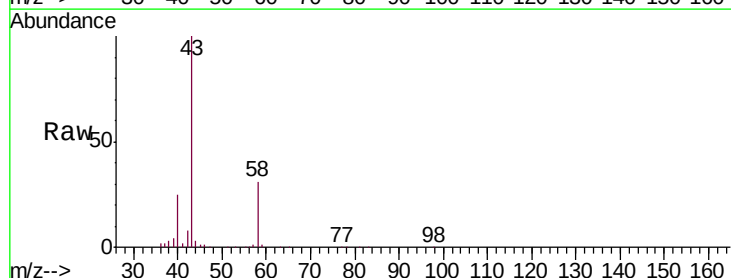
Acq: 24 Mar 2019 17:48

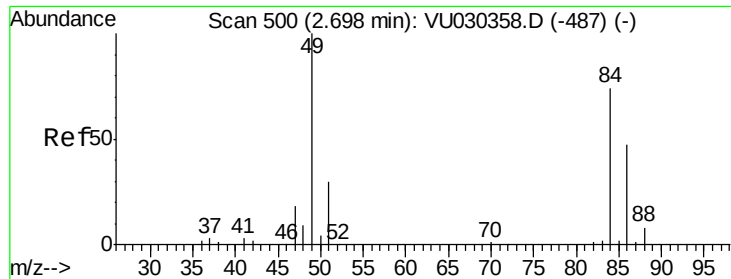
Tgt Ion: 43 Resp: 143647

Ion Ratio Lower Upper

43 100

58 31.4 0.0 62.8

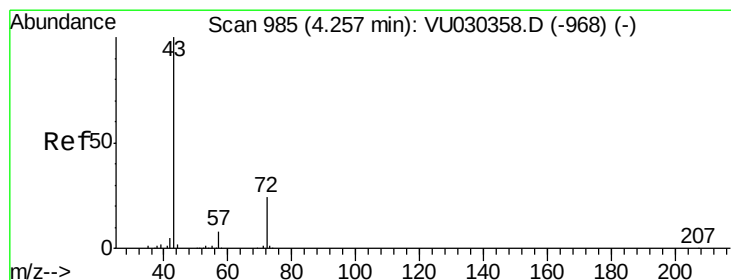
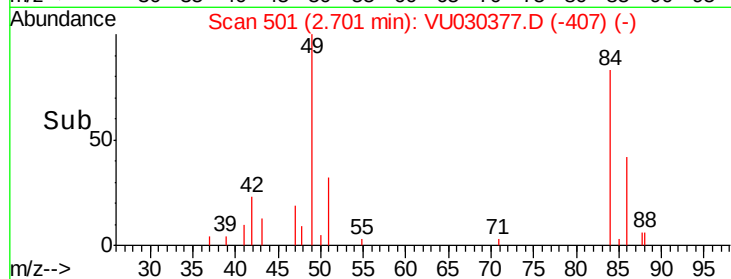
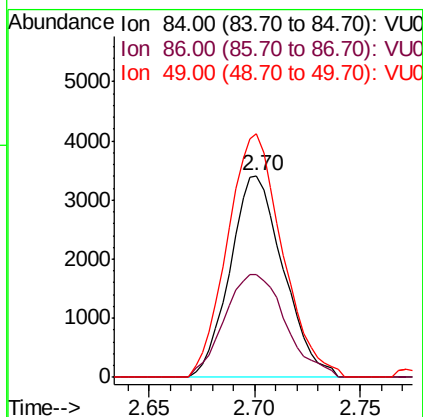
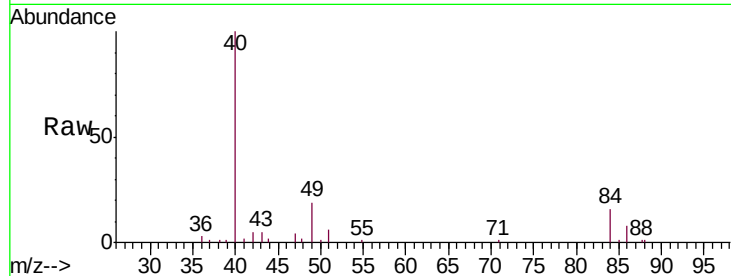




#16
Methylene chloride
Concen: 1.639 ug/L
RT: 2.70 min Scan# 501
Delta R.T. 0.00 min
Lab File: VU030377.D
Acq: 24 Mar 2019 17:48

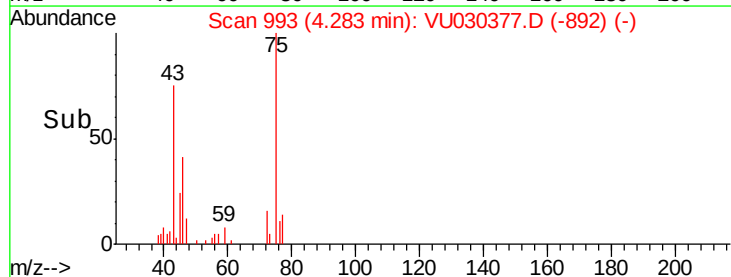
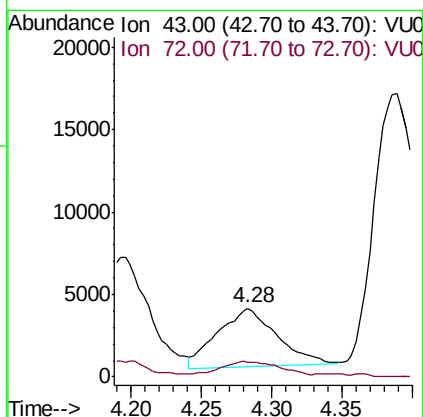
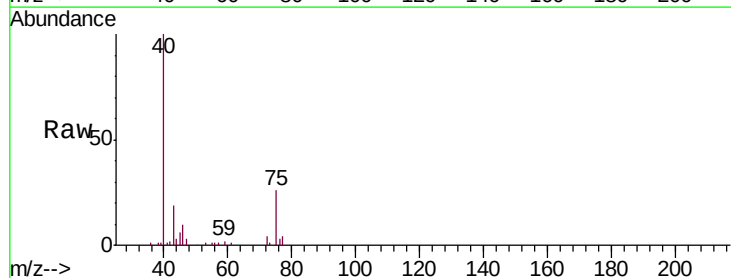
Instrument :
MSVOA_U
ClientSampled :
C0988

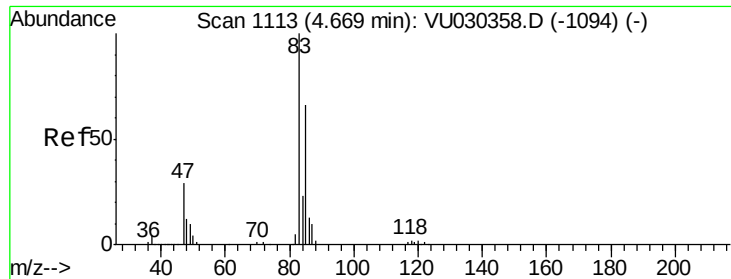
Tgt Ion: 84 Resp: 5990
Ion Ratio Lower Upper
84 100
86 50.8 44.3 82.3
49 120.8 94.9 176.3



#22
2-Butanone
Concen: 2.611 ug/L
RT: 4.28 min Scan# 993
Delta R.T. 0.03 min
Lab File: VU030377.D
Acq: 24 Mar 2019 17:48

Tgt Ion: 43 Resp: 10463
Ion Ratio Lower Upper
43 100
72 21.6 12.0 36.1





#25

Chloroform

Concen: 379.210 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VU030377.D

Acq: 24 Mar 2019 17:48

Instrument :

MSVOA_U

ClientSampleId :

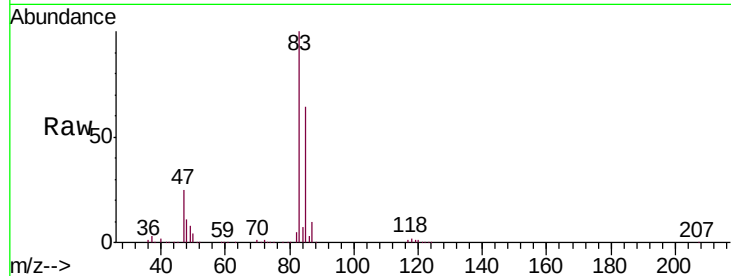
C0988

Tgt Ion: 83 Resp: 2406025

Ion Ratio Lower Upper

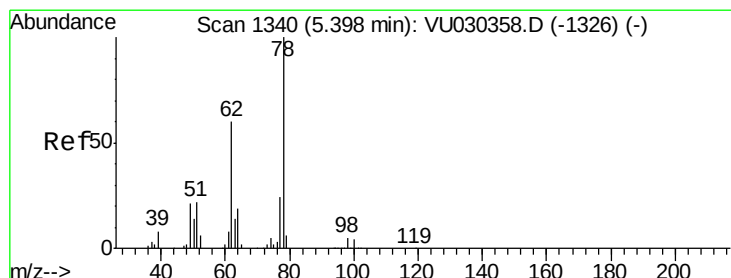
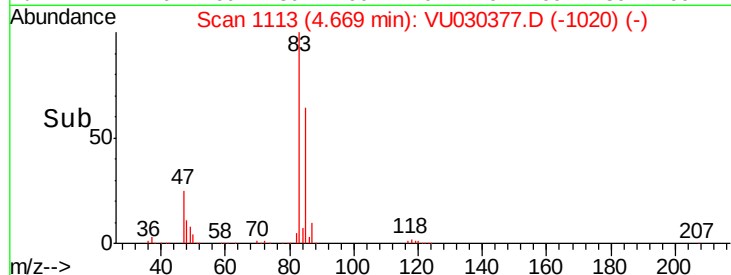
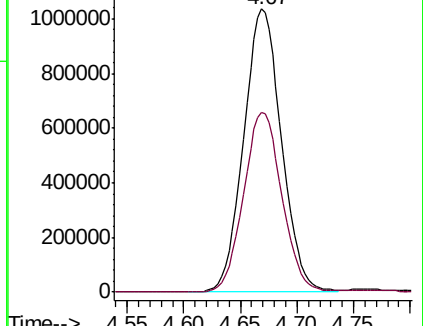
83 100

85 63.7 44.4 82.4



Abundance Ion 83.00 (82.70 to 83.70): VU030358.D (-1094) (-)

Ion 85.00 (84.70 to 85.70): VU030358.D (-1094) (-)



#27

1,2-Dichloroethane

Concen: 259.313 ug/L

RT: 5.42 min Scan# 1346

Delta R.T. 0.02 min

Lab File: VU030377.D

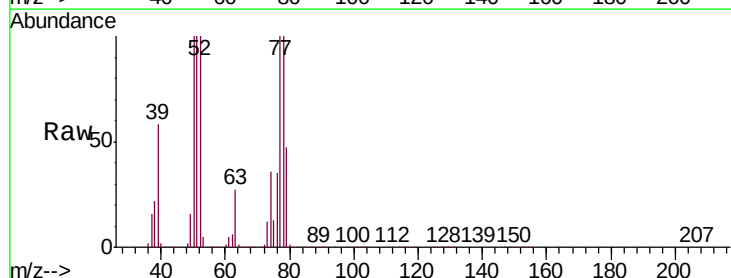
Acq: 24 Mar 2019 17:48

Tgt Ion: 62 Resp: 1291048

Ion Ratio Lower Upper

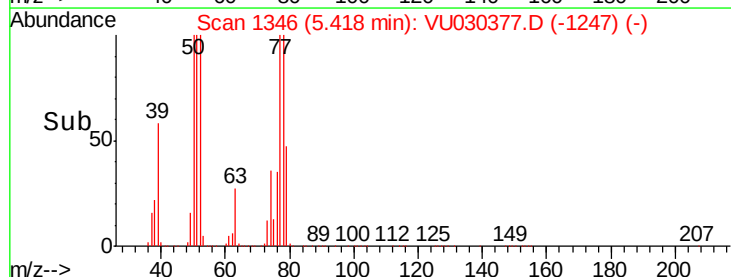
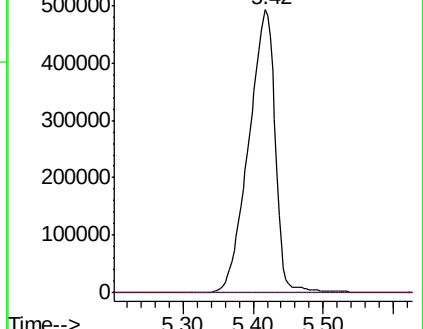
62 100

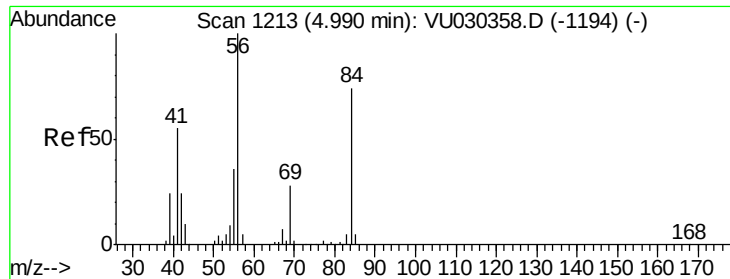
98 0.0 7.2 10.8#



Abundance Ion 62.00 (61.70 to 62.70): VU030358.D (-1326) (-)

Ion 98.00 (97.70 to 98.70): VU030358.D (-1326) (-)

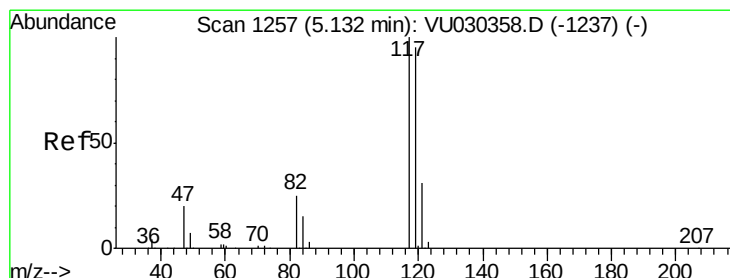
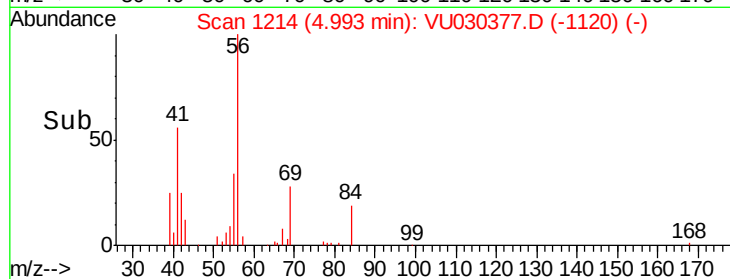
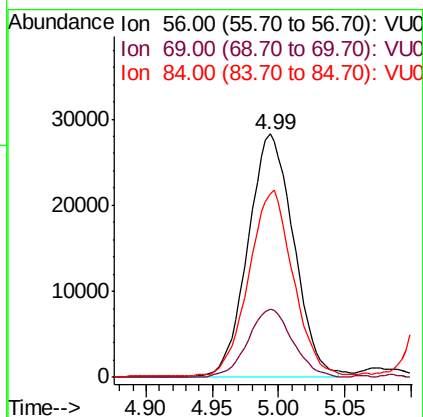
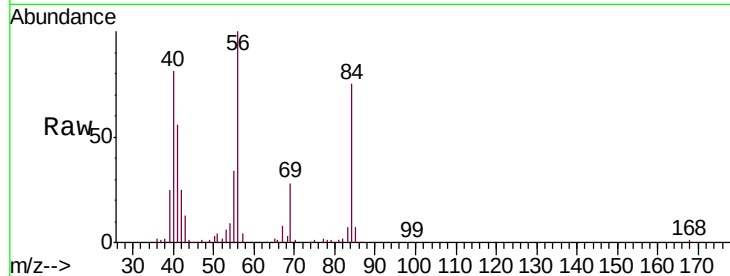




#29
Cyclohexane
Concen: 9.378 ug/L
RT: 4.99 min Scan# 1214
Delta R.T. 0.00 min
Lab File: VU030377.D
Acq: 24 Mar 2019 17:48

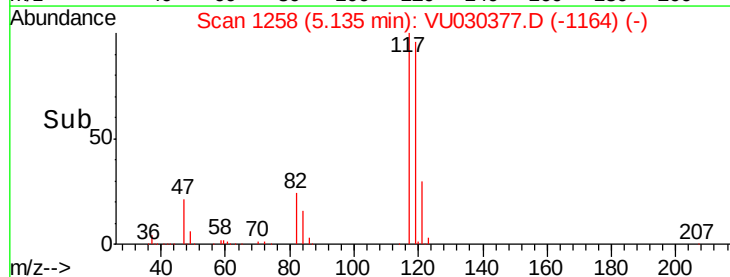
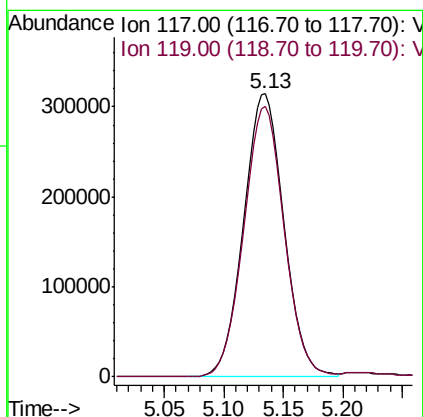
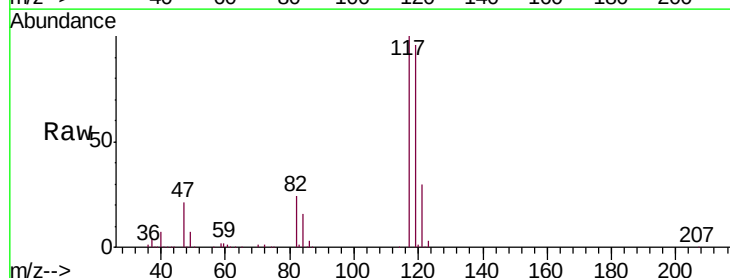
Instrument :
MSVOA_U
ClientSampleId :
C0988

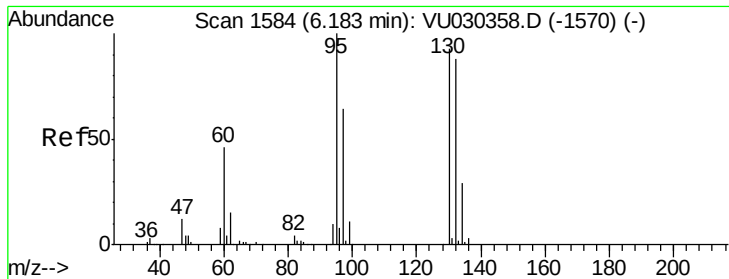
Tgt Ion: 56 Resp: 67731
Ion Ratio Lower Upper
56 100
69 27.5 22.9 34.3
84 74.0 58.9 88.3



#31
Carbon tetrachloride
Concen: 149.034 ug/L
RT: 5.13 min Scan# 1258
Delta R.T. 0.00 min
Lab File: VU030377.D
Acq: 24 Mar 2019 17:48

Tgt Ion: 117 Resp: 738163
Ion Ratio Lower Upper
117 100
119 95.8 75.4 113.2





#34

Trichloroethene

Concen: 2.299 ug/L

RT: 6.19 min Scan# 1585

Delta R.T. 0.00 min

Lab File: VU030377.D

Acq: 24 Mar 2019 17:48

Instrument :

MSVOA_U

ClientSampleId :

C0988

Tgt Ion: 95 Resp: 9181

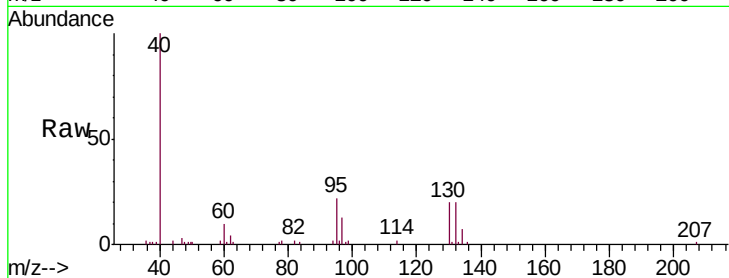
Ion Ratio Lower Upper

95 100

97 59.9 45.7 84.9

132 89.6 63.8 118.4

130 89.4 65.7 121.9

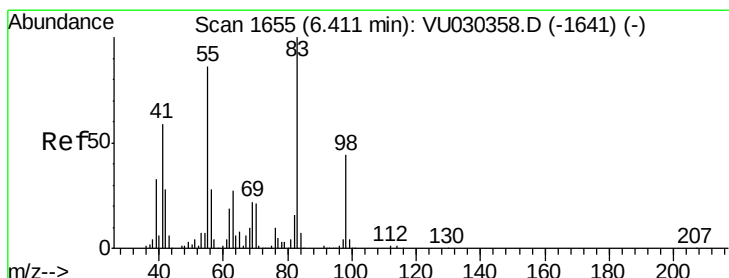
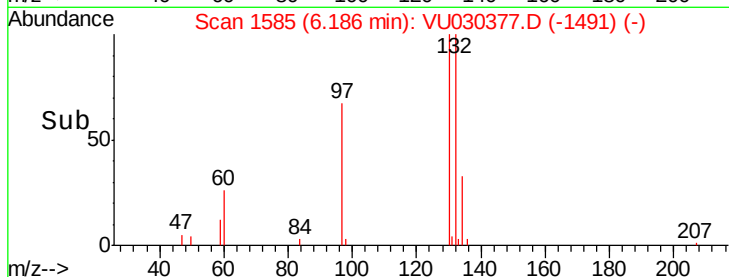
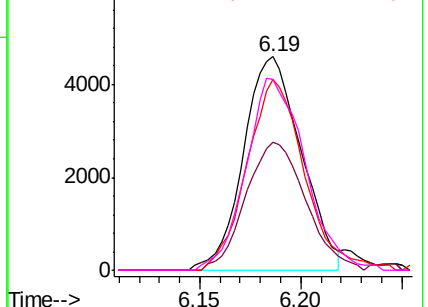


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 3.426 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU030377.D

Acq: 24 Mar 2019 17:48

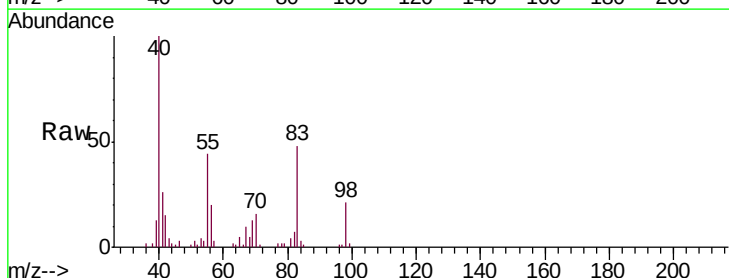
Tgt Ion: 83 Resp: 22513

Ion Ratio Lower Upper

83 100

55 123.2 71.4 107.0#

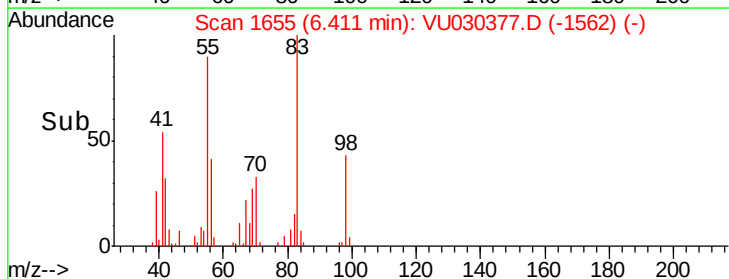
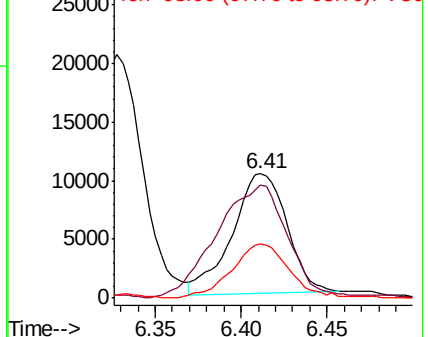
98 46.5 36.0 54.0

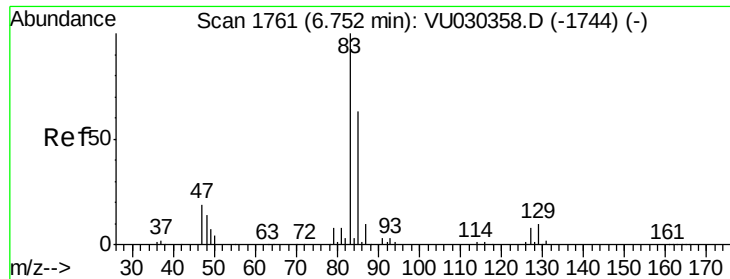


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#38

Bromodichloromethane

Concen: 4.567 ug/L

RT: 6.76 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VU030377.D

Acq: 24 Mar 2019 17:48

Instrument :

MSVOA_U

ClientSampleId :

C0988

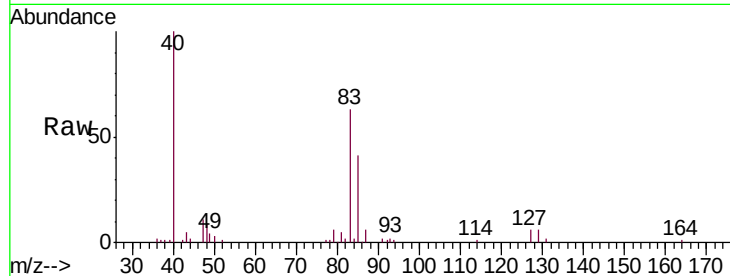
Tgt Ion: 83 Resp: 25020

Ion Ratio Lower Upper

83 100

85 64.9 45.0 83.6

127 9.1 6.6 10.0

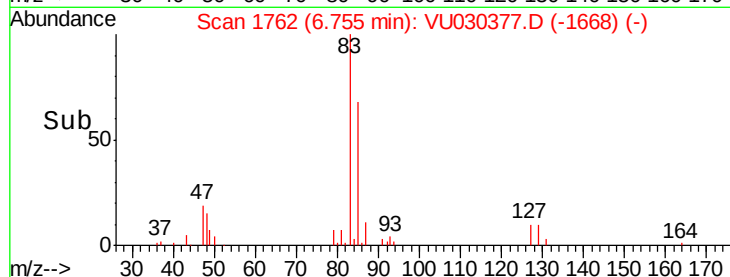


Abundance Ion 83.00 (82.70 to 83.70): VU030358.D (-1744) (-)

Ion 85.00 (84.70 to 85.70): VU030358.D (-1744) (-)

Ion 127.00 (126.70 to 127.70): VU030358.D (-1744) (-)

Time-->

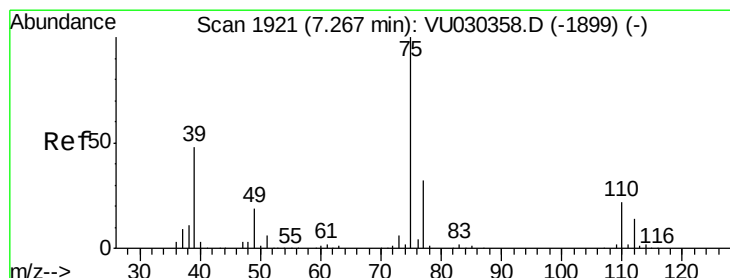


Abundance Ion 83.00 (82.70 to 83.70): VU030377.D (-1668) (-)

Ion 85.00 (84.70 to 85.70): VU030377.D (-1668) (-)

Ion 127.00 (126.70 to 127.70): VU030377.D (-1668) (-)

Time-->



#39

cis-1,3-Dichloropropene

Concen: 0.664 ug/L

RT: 7.22 min Scan# 1907

Delta R.T. -0.04 min

Lab File: VU030377.D

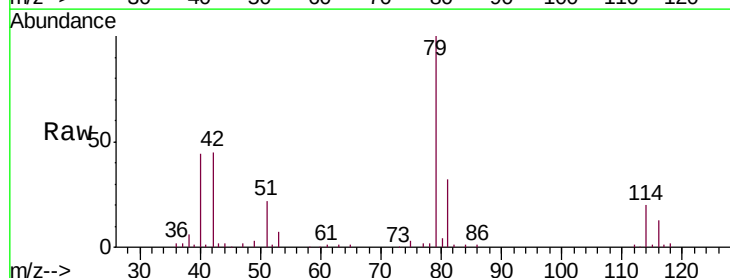
Acq: 24 Mar 2019 17:48

Tgt Ion: 75 Resp: 4401

Ion Ratio Lower Upper

75 100

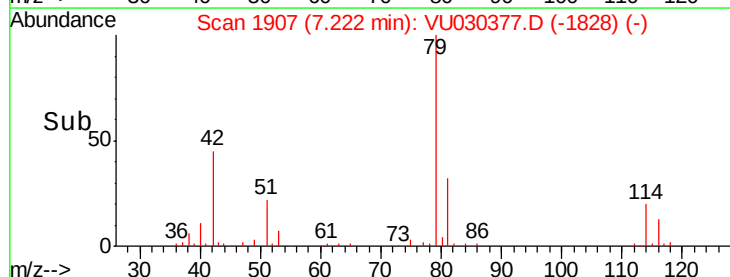
77 65.8 21.8 40.6#



Abundance Ion 75.00 (74.70 to 75.70): VU030358.D (-1899) (-)

Ion 77.00 (76.70 to 77.70): VU030358.D (-1899) (-)

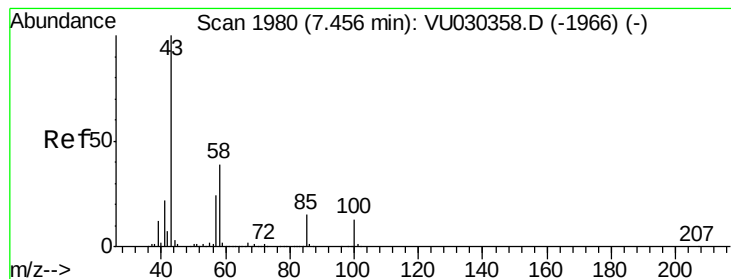
Time-->



Abundance Ion 75.00 (74.70 to 75.70): VU030377.D (-1828) (-)

Ion 77.00 (76.70 to 77.70): VU030377.D (-1828) (-)

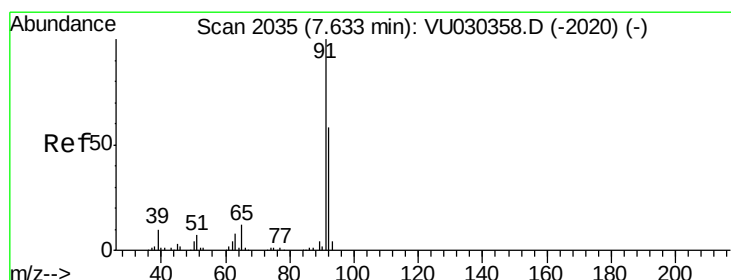
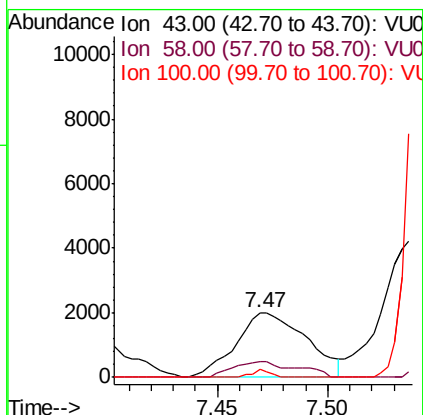
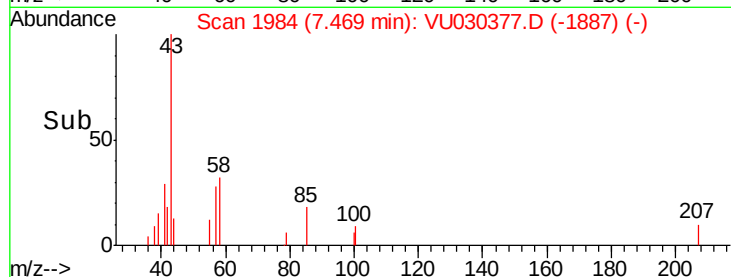
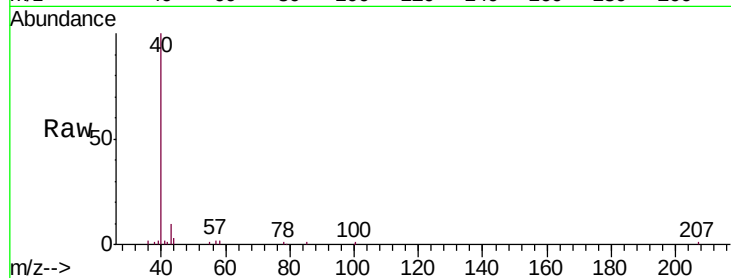
Time-->



#40
4-Methyl-2-pentanone
Concen: 0.573 ug/L
RT: 7.47 min Scan# 1984
Delta R.T. 0.01 min
Lab File: VU030377.D
Acq: 24 Mar 2019 17:48

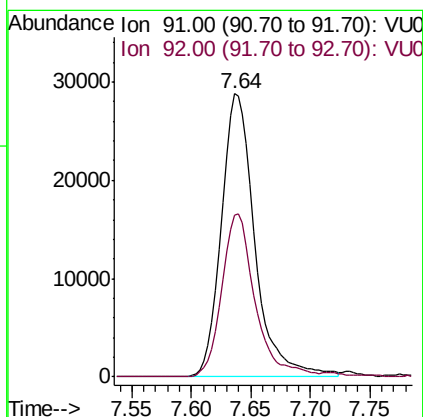
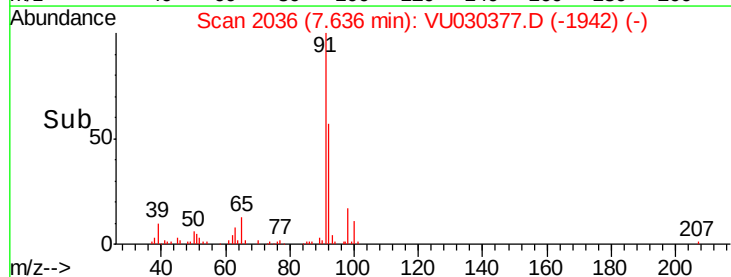
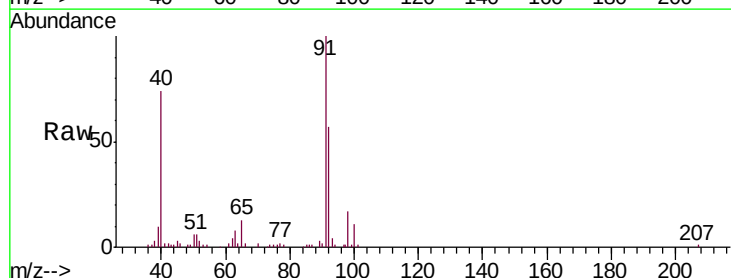
Instrument :
MSVOA_U
ClientSampleId :
C0988

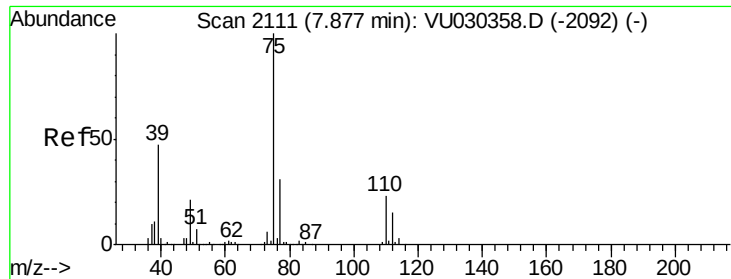
Tgt Ion: 43 Resp: 4438
Ion Ratio Lower Upper
43 100
58 15.3 30.6 45.8#
100 3.2 9.5 14.3#



#42
Toluene
Concen: 3.347 ug/L
RT: 7.64 min Scan# 2036
Delta R.T. 0.00 min
Lab File: VU030377.D
Acq: 24 Mar 2019 17:48

Tgt Ion: 91 Resp: 56426
Ion Ratio Lower Upper
91 100
92 56.9 39.7 73.7





#44

trans-1,3-Dichloropropene

Concen: 0.540 ug/L

RT: 7.85 min Scan# 2101

Delta R.T. -0.03 min

Lab File: VU030377.D

Acq: 24 Mar 2019 17:48

Instrument :

MSVOA_U

ClientSampleId :

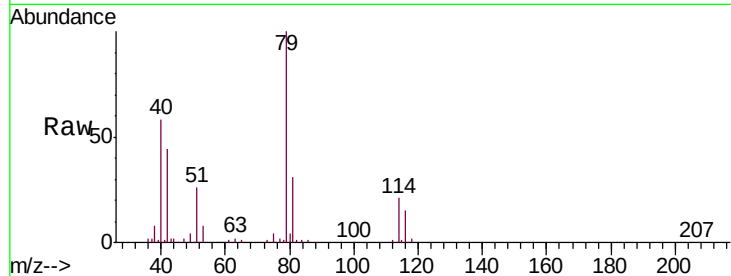
C0988

Tgt Ion: 75 Resp: 3151

Ion Ratio Lower Upper

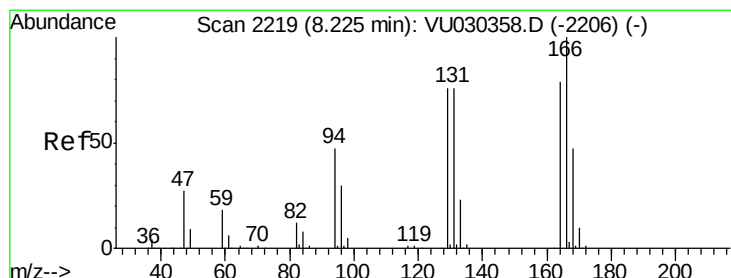
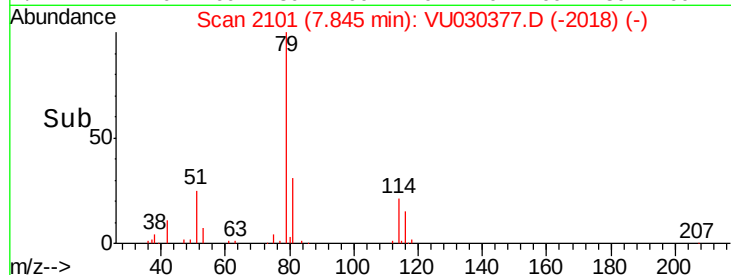
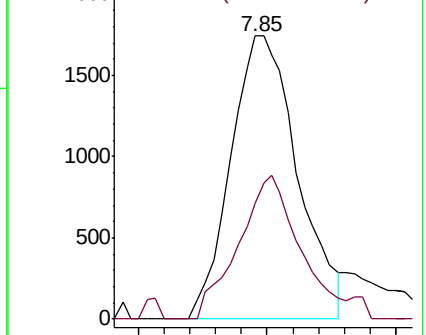
75 100

77 40.7 22.0 40.8



Abundance Ion 75.00 (74.70 to 75.70): VU030358.D (-2092) (-)

Ion 77.00 (76.70 to 77.70): VU030358.D (-2092) (-)



#46

Tetrachloroethene

Concen: 2.672 ug/L

RT: 8.23 min Scan# 2220

Delta R.T. 0.00 min

Lab File: VU030377.D

Acq: 24 Mar 2019 17:48

Tgt Ion: 164 Resp: 7454

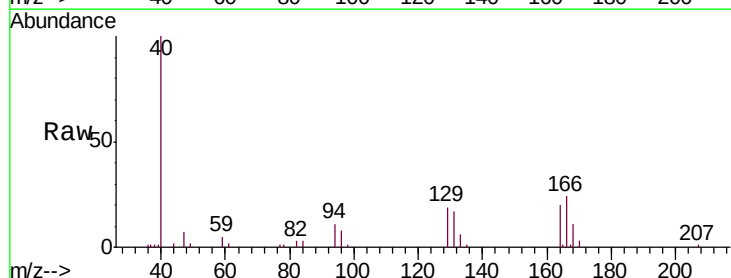
Ion Ratio Lower Upper

164 100

129 92.2 68.1 126.5

131 86.4 67.7 125.7

166 119.9 92.4 171.6

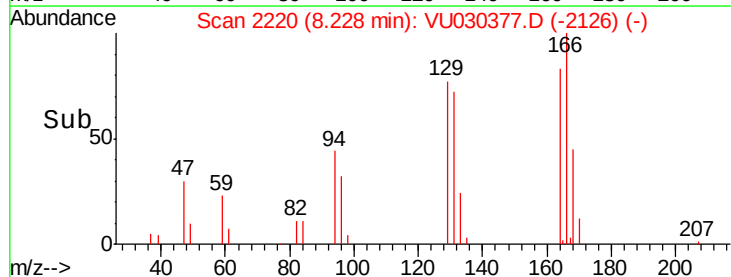
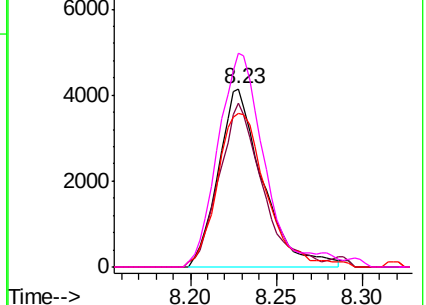


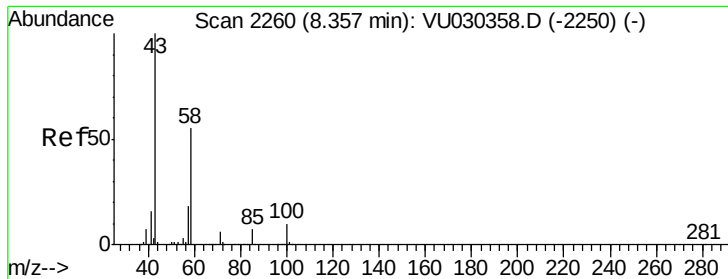
Abundance Ion 164.00 (163.70 to 164.70): VU030358.D (-2206) (-)

Ion 129.00 (128.70 to 129.70): VU030358.D (-2206) (-)

Ion 131.00 (130.70 to 131.70): VU030358.D (-2206) (-)

Ion 166.00 (165.70 to 166.70): VU030358.D (-2206) (-)

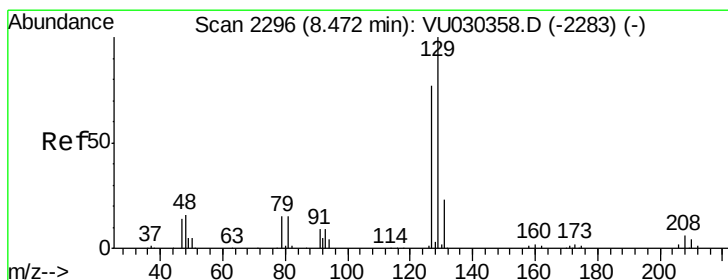
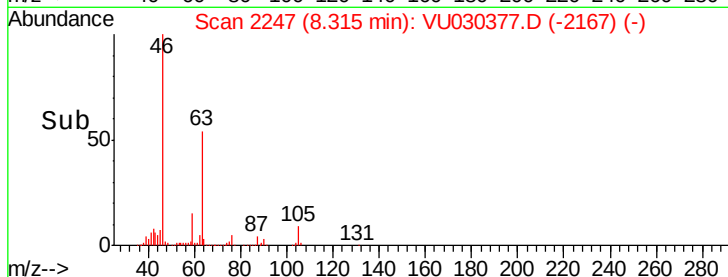
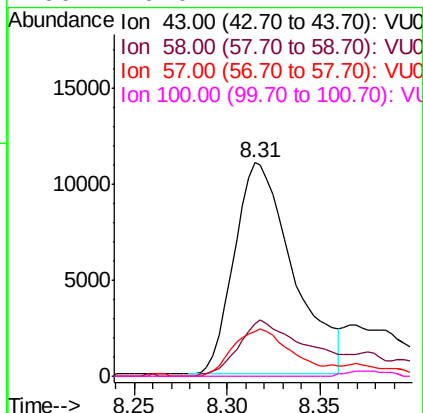
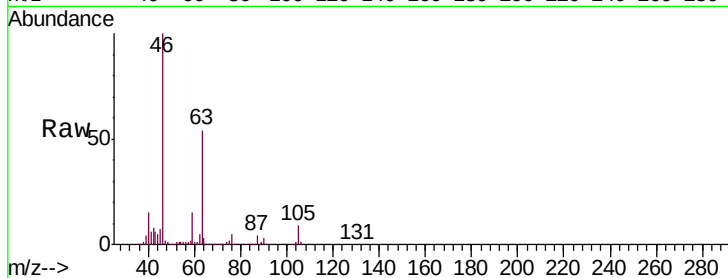




#48
 2-Hexanone
 Concen: 3.824 ug/L
 RT: 8.31 min Scan# 2247
 Delta R.T. -0.04 min
 Lab File: VU030377.D
 Acq: 24 Mar 2019 17:48

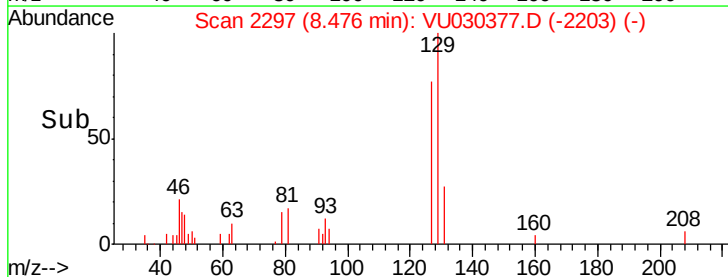
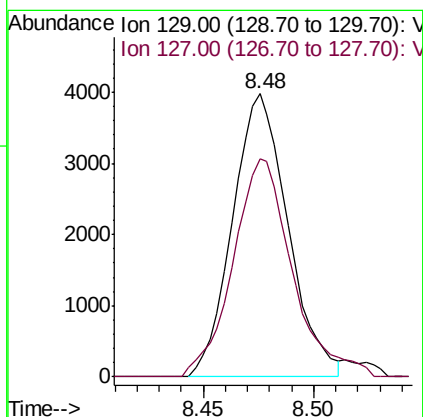
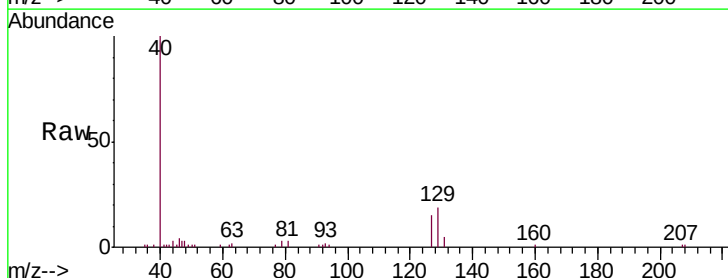
Instrument :
 MSVOA_U
 ClientSampleId :
 C0988

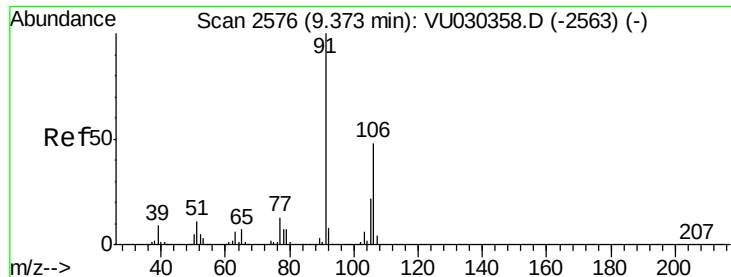
Tgt Ion:	43	Resp:	24271
Ion	Ratio	Lower	Upper
43	100		
58	31.8	42.5	63.7#
57	22.2	15.0	22.6
100	0.0	7.4	11.2#



#49
 Dibromochloromethane
 Concen: 1.711 ug/L
 RT: 8.48 min Scan# 2297
 Delta R.T. 0.00 min
 Lab File: VU030377.D
 Acq: 24 Mar 2019 17:48

Tgt Ion:	129	Resp:	6925
Ion	Ratio	Lower	Upper
129	100		
127	77.2	53.2	98.8





#53

m,p-Xylene

Concen: 0.790 ug/L

RT: 9.39 min Scan# 2580

Delta R.T. 0.01 min

Lab File: VU030377.D

Acq: 24 Mar 2019 17:48

Instrument :

MSVOA_U

ClientSampleId :

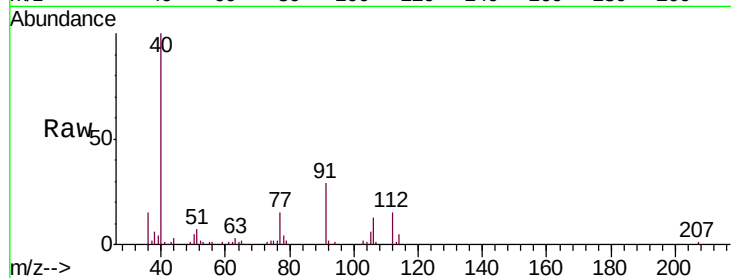
C0988

Tgt Ion:106 Resp: 5209

Ion Ratio Lower Upper

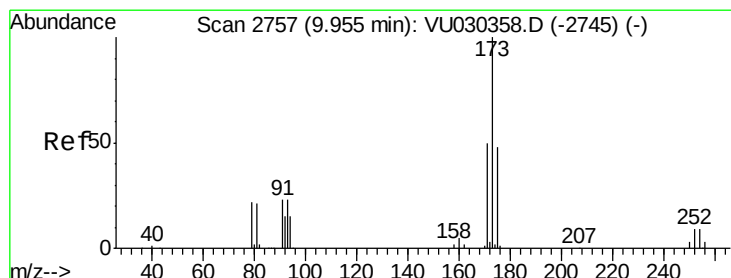
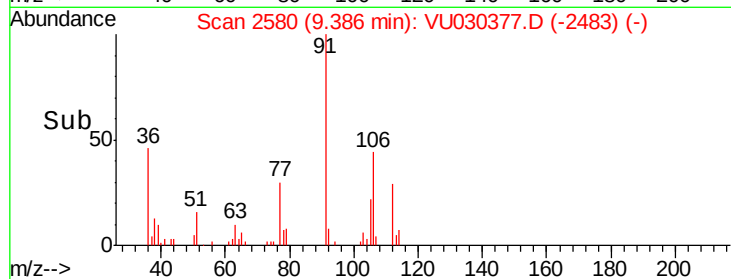
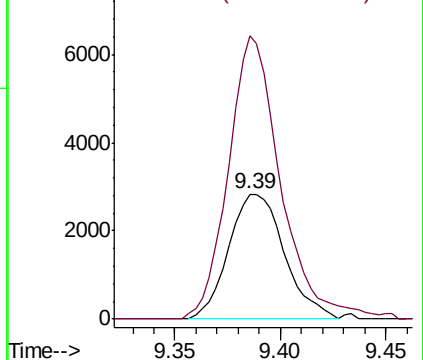
106 100

91 226.2 151.2 280.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#61

Bromoform

Concen: 44.478 ug/L

RT: 9.96 min Scan# 2758

Delta R.T. 0.00 min

Lab File: VU030377.D

Acq: 24 Mar 2019 17:48

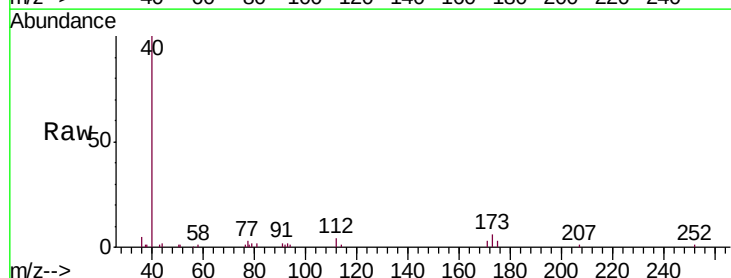
Tgt Ion:173 Resp: 2382

Ion Ratio Lower Upper

173 100

175 47.9 38.5 57.7

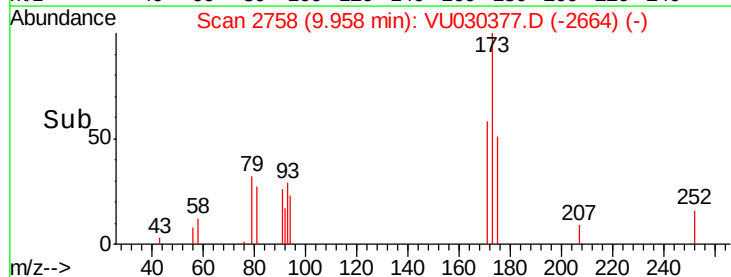
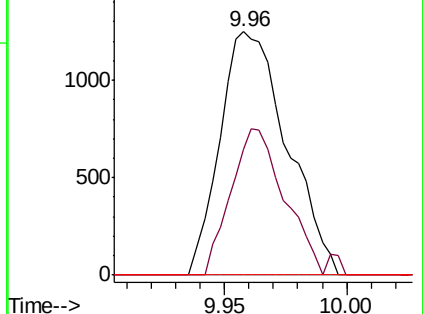
254 0.0 6.8 10.2#

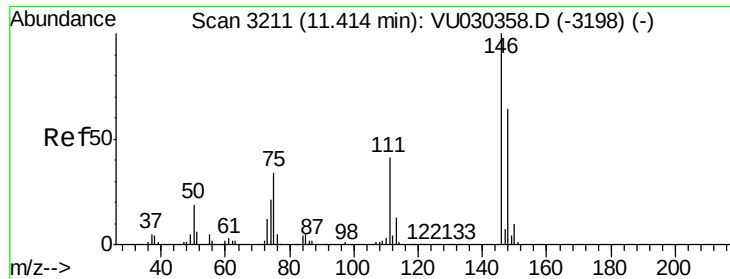


Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V





#62

1,3-Dichlorobenzene

Concen: 146840.943 ug/L

RT: 11.43 min Scan# 3215

Delta R.T. 0.01 min

Lab File: VU030377.D

Acq: 24 Mar 2019 17:48

Instrument :

MSVOA_U

ClientSampled :

C0988

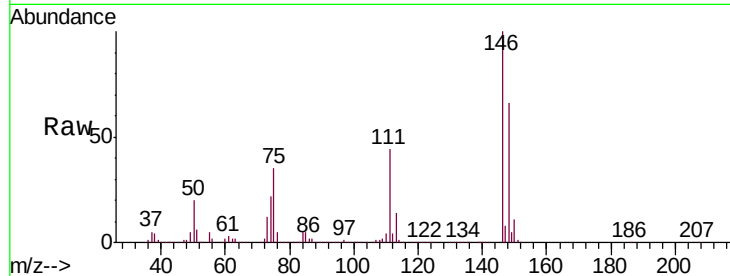
Tgt Ion:146 Resp:19342842

Ion Ratio Lower Upper

146 100

111 44.4 29.2 54.2

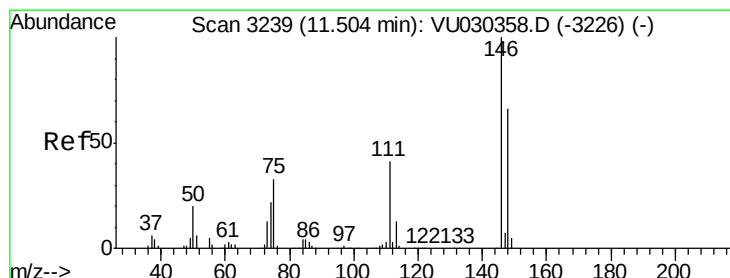
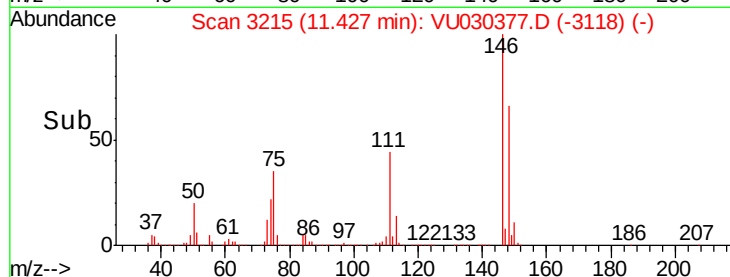
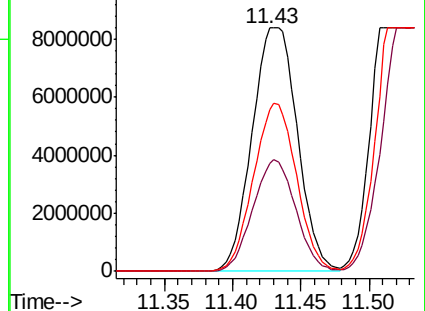
148 66.5 44.4 82.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 142636.871 ug/L

RT: 11.43 min Scan# 3215

Delta R.T. -0.08 min

Lab File: VU030377.D

Acq: 24 Mar 2019 17:48

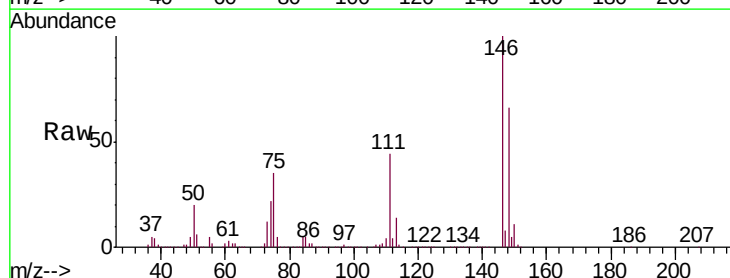
Tgt Ion:146 Resp:19342842

Ion Ratio Lower Upper

146 100

111 44.4 28.7 53.3

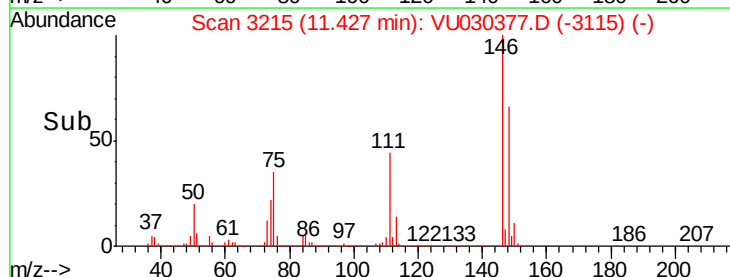
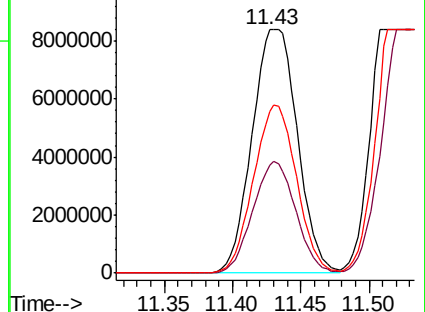
148 66.5 44.3 82.3

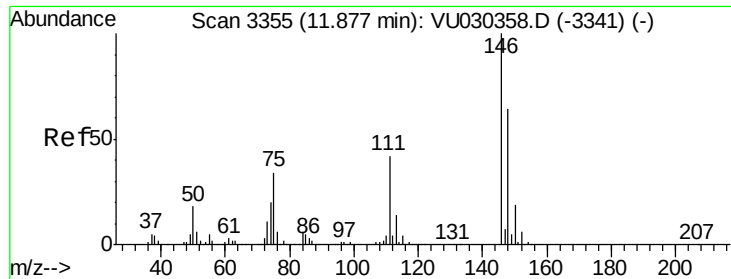


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

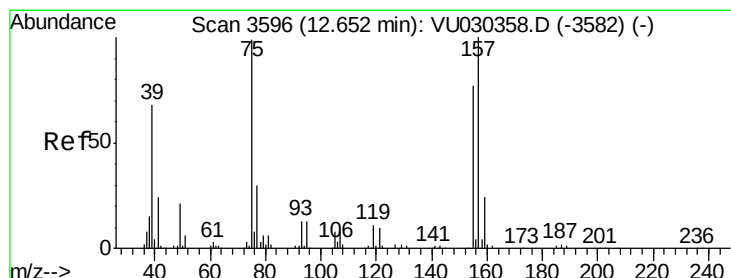
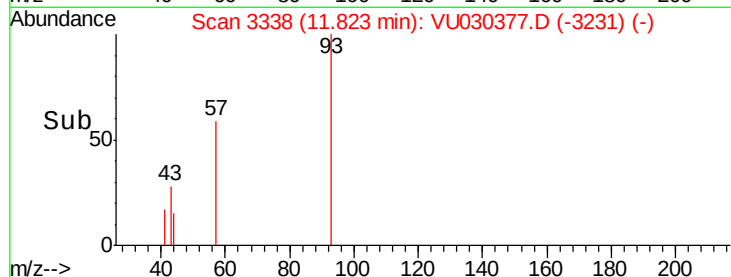
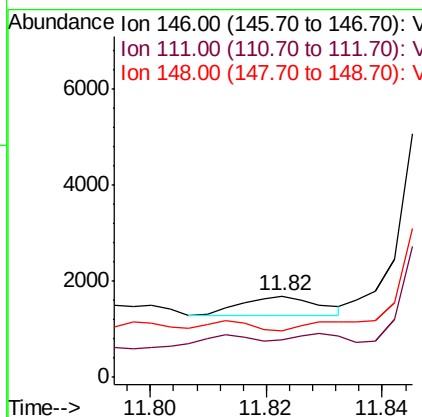
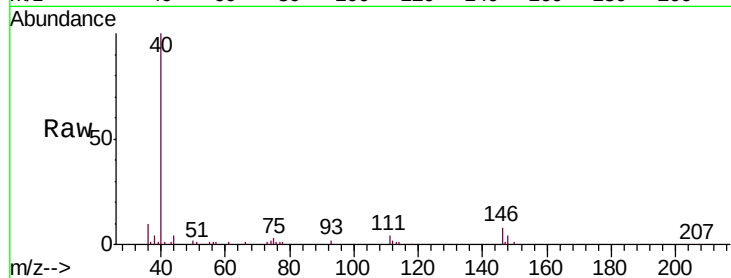




#65
 1,2-Dichlorobenzene
 Concen: 2.815 ug/L
 RT: 11.82 min Scan# 3338
 Delta R.T. -0.05 min
 Lab File: VU030377.D
 Acq: 24 Mar 2019 17:48

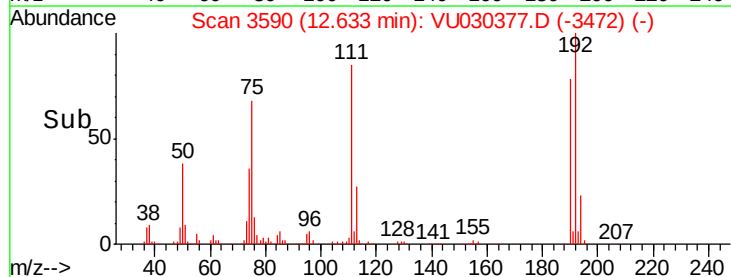
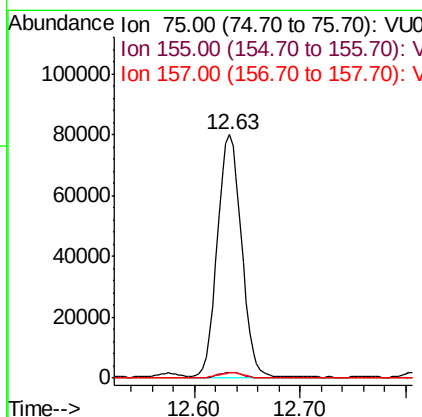
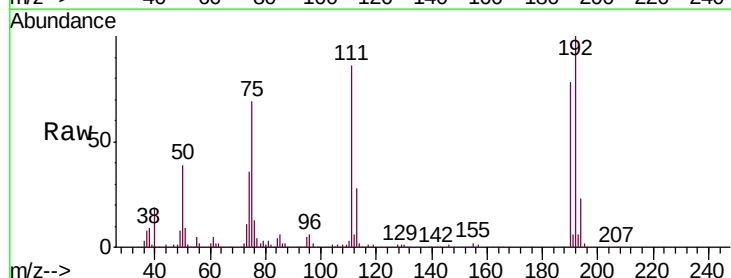
Instrument :
 MSVOA_U
 ClientSampleId :
 C0988

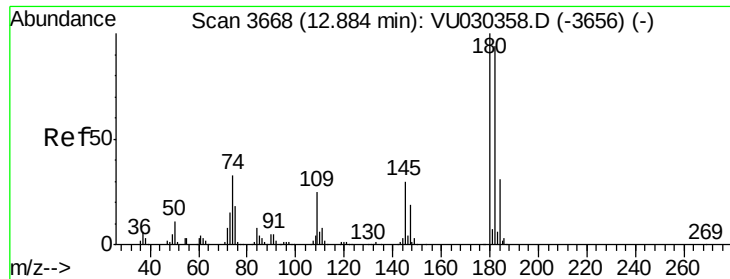
Tgt Ion:146 Resp: 375
 Ion Ratio Lower Upper
 146 100
 111 45.8 34.9 52.3
 148 56.9 51.2 76.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4285.625 ug/L
 RT: 12.63 min Scan# 3590
 Delta R.T. -0.02 min
 Lab File: VU030377.D
 Acq: 24 Mar 2019 17:48

Tgt Ion: 75 Resp: 127103
 Ion Ratio Lower Upper
 75 100
 155 2.5 61.8 92.6#
 157 2.0 80.2 120.4#

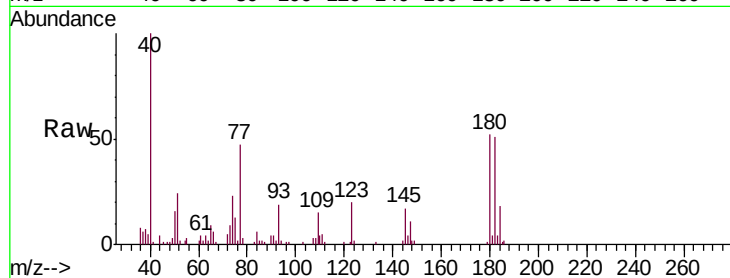




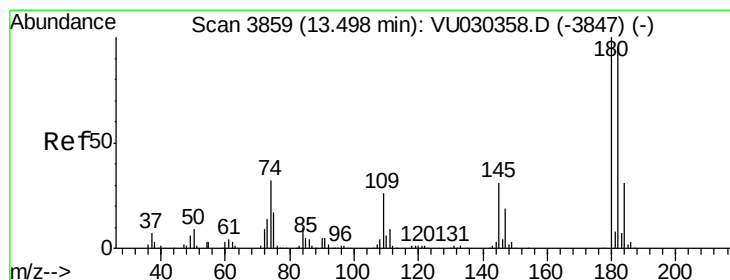
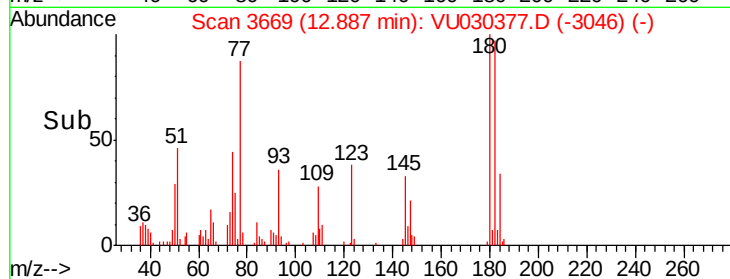
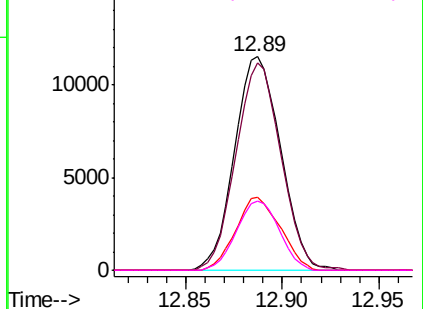
#67
 1,3,5-Trichlorobenzene
 Concen: 193.634 ug/L
 RT: 12.89 min Scan# 3669
 Delta R.T. 0.00 min
 Lab File: VU030377.D
 Acq: 24 Mar 2019 17:48

Instrument :
 MSVOA_U
 ClientSampleId :
 C0988

Tgt Ion:	180	Resp:	19095
Ion	Ratio	Lower	Upper
180	100		
182	94.9	75.9	113.9
184	33.0	24.1	36.1
145	30.1	23.8	35.8

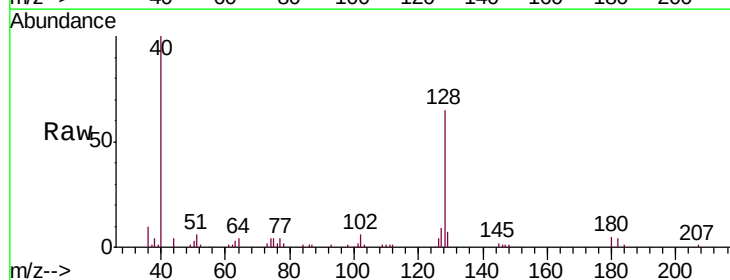


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

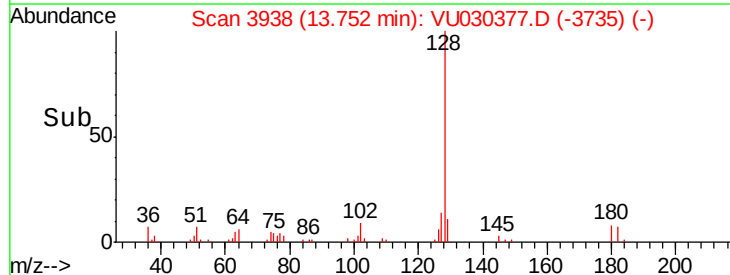
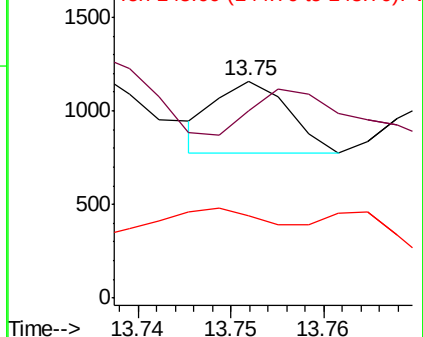


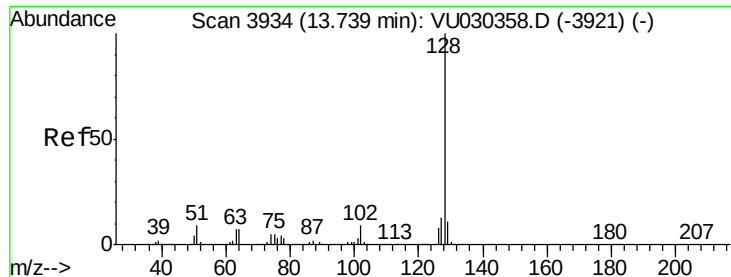
#68
 1,2,4-trichlorobenzene
 Concen: 2.463 ug/L
 RT: 13.75 min Scan# 3938
 Delta R.T. 0.25 min
 Lab File: VU030377.D
 Acq: 24 Mar 2019 17:48

Tgt Ion:	180	Resp:	211
Ion	Ratio	Lower	Upper
180	100		
182	147.9	76.1	114.1#
145	74.9	24.5	36.7#



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 96.171 ug/L

RT: 13.75 min Scan# 3936

Delta R.T. 0.01 min

Lab File: VU030377.D

Acq: 24 Mar 2019 17:48

Instrument :

MSVOA_U

ClientSampleId :

C0988

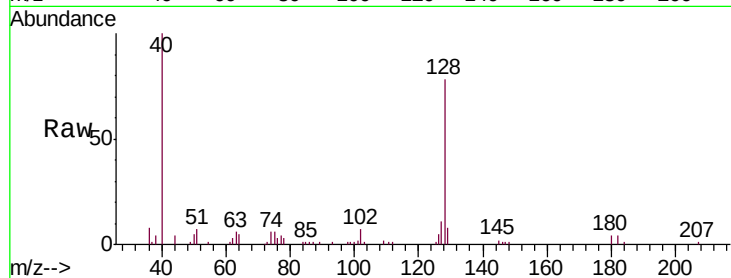
Tgt Ion:128 Resp: 29301

Ion Ratio Lower Upper

128 100

127 13.9 10.4 15.6

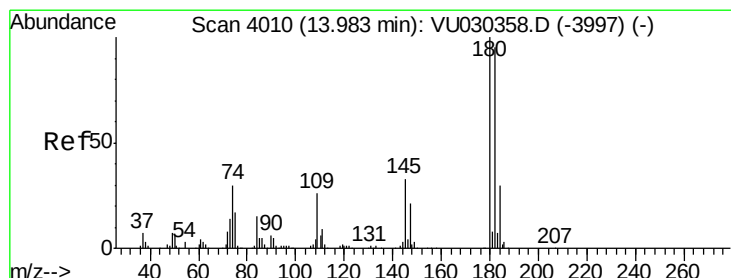
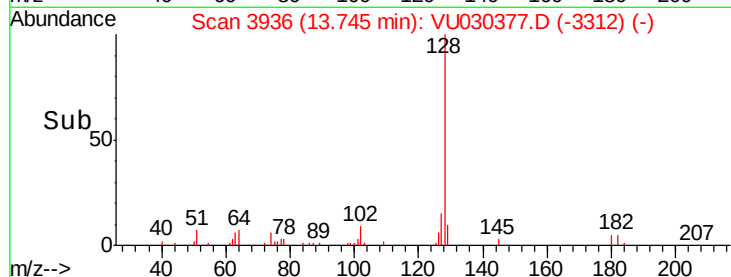
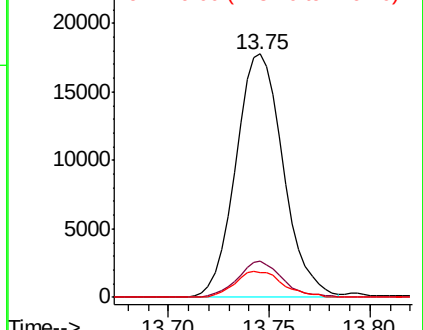
129 10.8 8.4 12.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 95850.718 ug/L

RT: 13.99 min Scan# 4013

Delta R.T. 0.01 min

Lab File: VU030377.D

Acq: 24 Mar 2019 17:48

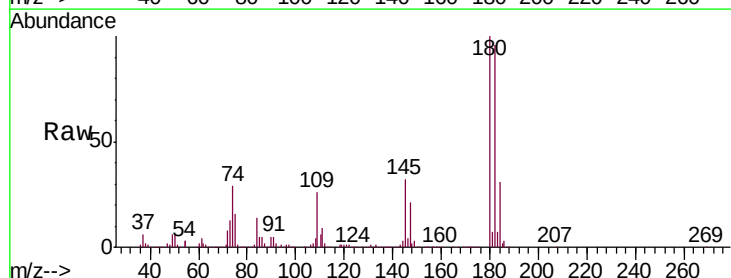
Tgt Ion:180 Resp: 8672317

Ion Ratio Lower Upper

180 100

182 96.1 77.4 116.2

145 32.3 25.9 38.9



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

